

Abstract

Rubber compositions comprising a precipitated silica with the following physico-chemical properties:

BET surface area	35 to 350 m ² /g
BET/CTAB surface area ratio	0.8 to 1.1
Pore volume, PV	1.6 to 3.4 ml/g
Silanol group density (V ₂ = NaOH consumption)	6 to 20 ml
Average aggregate size	250 to 1500 nm
CTAB surface area	30 to 350 m ² /g
DBP value	150 to 300 ml/100 g
V ₂ /V ₁ by Hg porosimetry	0.19 to 0.46
DBP/CTAB	1.2 to 3.5.